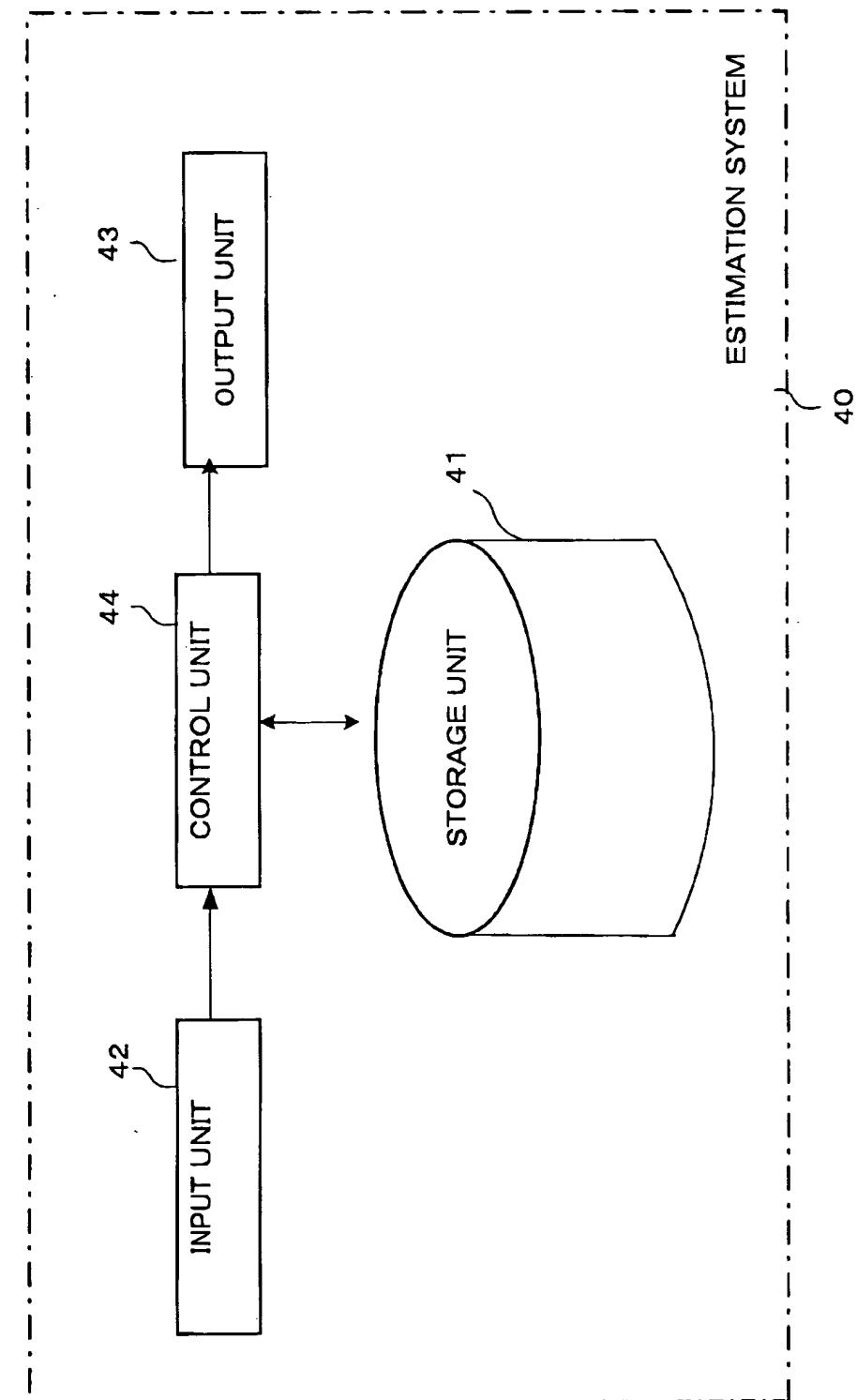


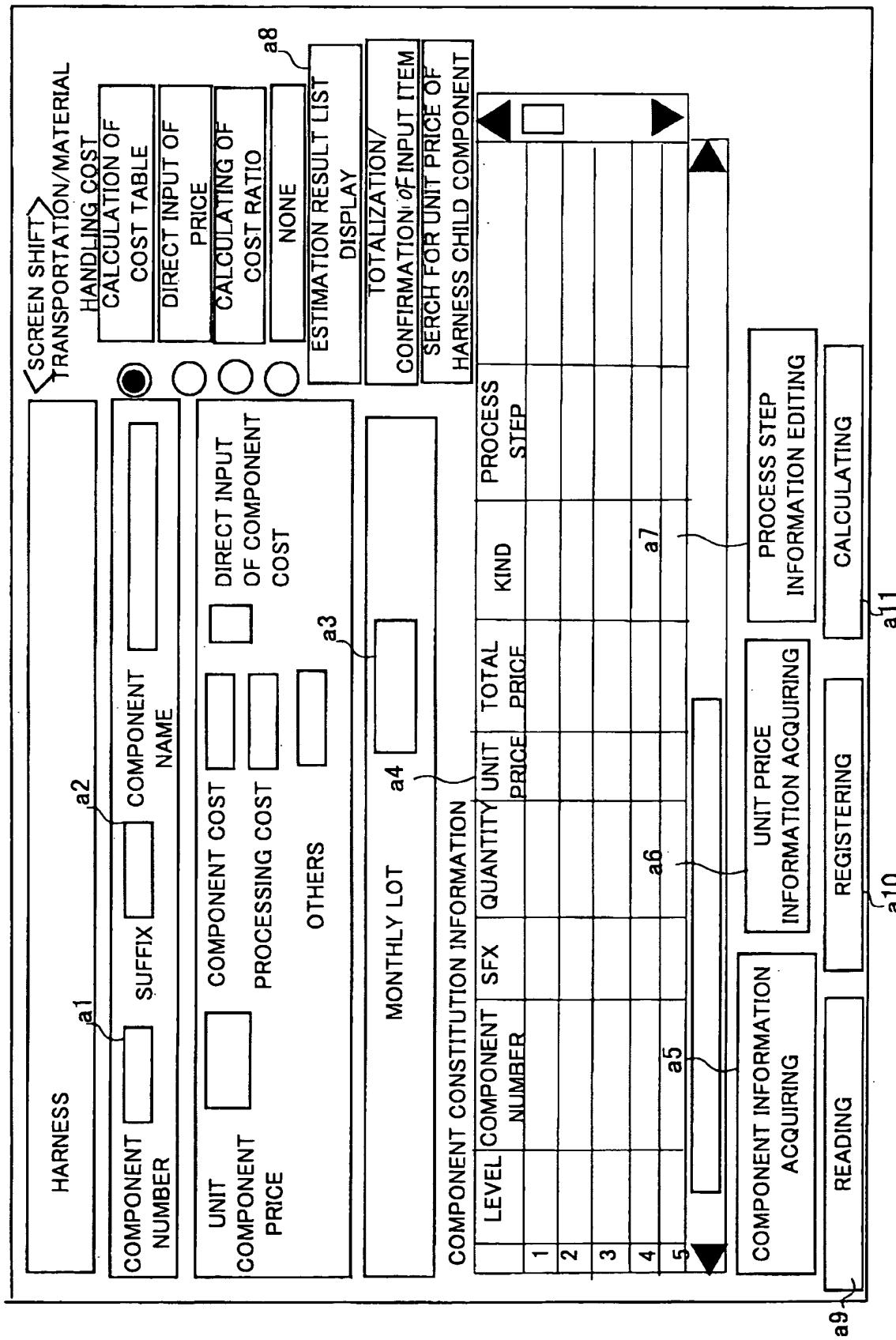
F I G. 1

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F I G. 2



3/38

F I G. 3

b1

| COMPONENT NUMBER | | SUFFIX | COMPONENT NAME | ▲PRIOR COMPONENT | | | |
|------------------------|---------------|---|---|---|---|-----|-----|
| PROCESSING INFORMATION | | INSULATION- DISPLACEMENT- CRIMPING(IDC) | WIRING - PREPARATION WORKS/WIRING | ▼NEXT COMPONENT RETURN CANCEL HELP | | | |
| PROCESS STEP | | PARAMETER | WIRING-RELATED WORKS CONTINUITY CHECK/ APPEARANCE CHECK | | | | |
| FULLY-AUTOMATED | SEMIAUTOMATED | NUMBER OF TIMES FOR IDC | | | | | |
| | | QT. OF WIRES | | | | | |
| | | QT. OF CONNECTORS | | | | | |
| | | NO. OF KINDS OF CONNECTORS | | | | | |
| COPPER FOIL SHIELD | | WIRE'S LENGTH | QT. OF POLES(QT. OF PINS PER CN) | | | | |
| | | ~200 | 2 | 3 | 4 | 5 | 6~7 |
| | | 201~500 | | | | | • |
| | | 501~1000 | | | | | • |
| FOLDED | | WIRE'S LENGTH | QT. OF POLES(QT. OF PINS PER CN) | | | | |
| | | ~200 | 2 | 3 | 4 | • | • |
| | | 201~500 | | | | | • |
| WIRE'S LENGTH | | QT. OF POLES(QT. OF PINS PER CN) | | | | | |
| ~200 | | 2 | 3 | 4 | 5 | 6~7 | • |
| 201~500 | | | | | | | • |
| 501~1000 | | | | | | | • |

4/38

F I G. 4

| | |
|-----|--|
| C.C | FULLY-AUTOMATED CUTTING |
| | MANUAL C.C |
| | SEPARATE TERMINAL C.C |
| | CONTINUOUS TERMINAL C.C |
| | FULLY AUTOMATED -DUAL TERMINAL C.C |
| | TERMINAL INSERTING |
| IDC | |
| | SAIDC |
| | FADTIDC(MULTI) |
| | FADTIDC(SIMPLE) |
| | FADTIDC(COPPER FOIL SHIELD) |
| | WIRING -PREPARATION WORKS/WIRING |
| | SOLDERING |
| | INSULATION SLEEVE INSERTION |
| | WIRE MARK ADHERING |
| | SINGLE CN INSERTION INTO HOUSING |
| | WIRING |
| | WIRING-RELATED WORKS CONTINUITY CHECK/APPEARANCE CHECK |
| | TERMINAL INSERTION INTO WIRES |
| | BIND BUNDLING |
| | TUBE ATTACHING |
| | THERMAL CONTRACTION TUBE ATTACHING |
| | SPIRAL LAP BUNDLING |
| | RELAY CONNECTOR ATTACHING |
| | SERGE KILLER ATTACHING |
| | CIRCLE CORE ATTACHING |
| | BRACKET ATTACHING |
| | CONTINUITY CHECK |
| | APPEARANCE CHECK |

5/38

F I G. 5

b1

| COMPONENT NUMBER <PROCESS INFORMATION> | | SUFFIX [] | COMPONENT NAME [] | APRIOR COMPONENT | | |
|--|---|---|--|---|--------------------------------|--------|
| CRIMP- CONNECTING (C.C.) | | INSULATION- DISPLACEMENT- CRIMPING(IDC) | WIRING - PREPARATION WORKS/WIRING | WIRING-RELATED WORKS CONTINUITY CHECK/ APPEARANCE CHECK | RETURN | CANCEL |
| PROCESS STEP | PARAMETER | NUMBER OF KIND OF WIRE LENGTH | QT. OF VINYL COVERED WIRES | QT. OF OTHER TYPE OF WIRES | PROCESS GUIDE < NAVIGATOR > | |
| AUTOMATED CUTTING | WIRE LENGTH | ~600 601~900 | | | | |
| | • | | | | | |
| | | | | | | |
| MANUAL C.C (CLOSED) | QT. OF WIRE FOR C.C POINTS | NO. OF QT. OF WIRE FOR C.C POINTS | NO. OF QT. OF WIRE FOR C.C POINTS | NO. OF QT. OF WIRE FOR C.C POINTS | • | |
| TERMINAL SEPARATE | NO. OF KIND OF TERMINAL QT. OF WIRE FOR C.C | NO. OF QT. OF WIRE FOR C.C POINTS | NO. OF QT. OF WIRE FOR C.C POINTS | NO. OF QT. OF WIRE FOR C.C POINTS | • | |
| CONTINUOUS TERMINAL C.C | NO. OF KIND OF TERMINAL QT. OF WIRE FOR C.C | NO. OF QT. OF WIRE FOR C.C POINTS | NO. OF QT. OF WIRE FOR C.C POINTS | NO. OF QT. OF WIRE FOR C.C POINTS | • | |
| FULLY- AUTOMATED DUAL TERMINAL C.C | NUMBER OF KIND OF WIRE LENGTH WIRE LENGTH | QT. OF WIRE ~500 | WIRE LENGTH 501~1000 | QT. OF WIRE • • • | | |
| TERMINAL INSERTING | QT. OF CONNECTOR | QT. OF TERMINAL | | | | |

F I G. 6

6/38

| | | | | | |
|----------------------------|--------|----------------------------|------------------------------------|--------------------------|--------------------------|
| COMPONENT NUMBER | SUFFIX | COMPONENT NAME | b1 | | |
| <PROCESS INFORMATION> | | WIRING - PREPARATION WORKS | WIRING-RELATED WORKS | | |
| CRIMP-CONNECTING (C.C.) | | DISPLACEMENT-CRIMPING(DC) | CONTINUITY CHECK/ APPEARANCE CHECK | | |
| PROCESS STEP | | SOLDERING | PARAMETER | QT. OF WIRES | QT. OF COMPONENT |
| WIRING - PREPARATION WORKS | | WIRING | KIND | QT. OF WIRES | PROCESS GUIDE |
| | | INLET FUSE | | | |
| | | MICRO SW CN | | | |
| | | NO. OF POINTS | | | < NAVIGATOR > |
| WIREMARK ADHEERING | | QT. OF WIRES | QT. OF POINTS | | |
| SINGLE CN | | 1 | | | |
| INSERTION INTO HOUSING | | 2 OR MORE | | | |
| WIRING | | QT. OF HOUSING | | | |
| | | WIRE'S LARGEST LENGTH | QT. OF CONNECTOR | QT. OF TERMINALS | |
| | | ~500 | S | | |
| | | 501 ~ | | | |
| TERMINAL KIND | | CLOSED | CIRCLE | RESIN COVERD | FASTON |
| | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

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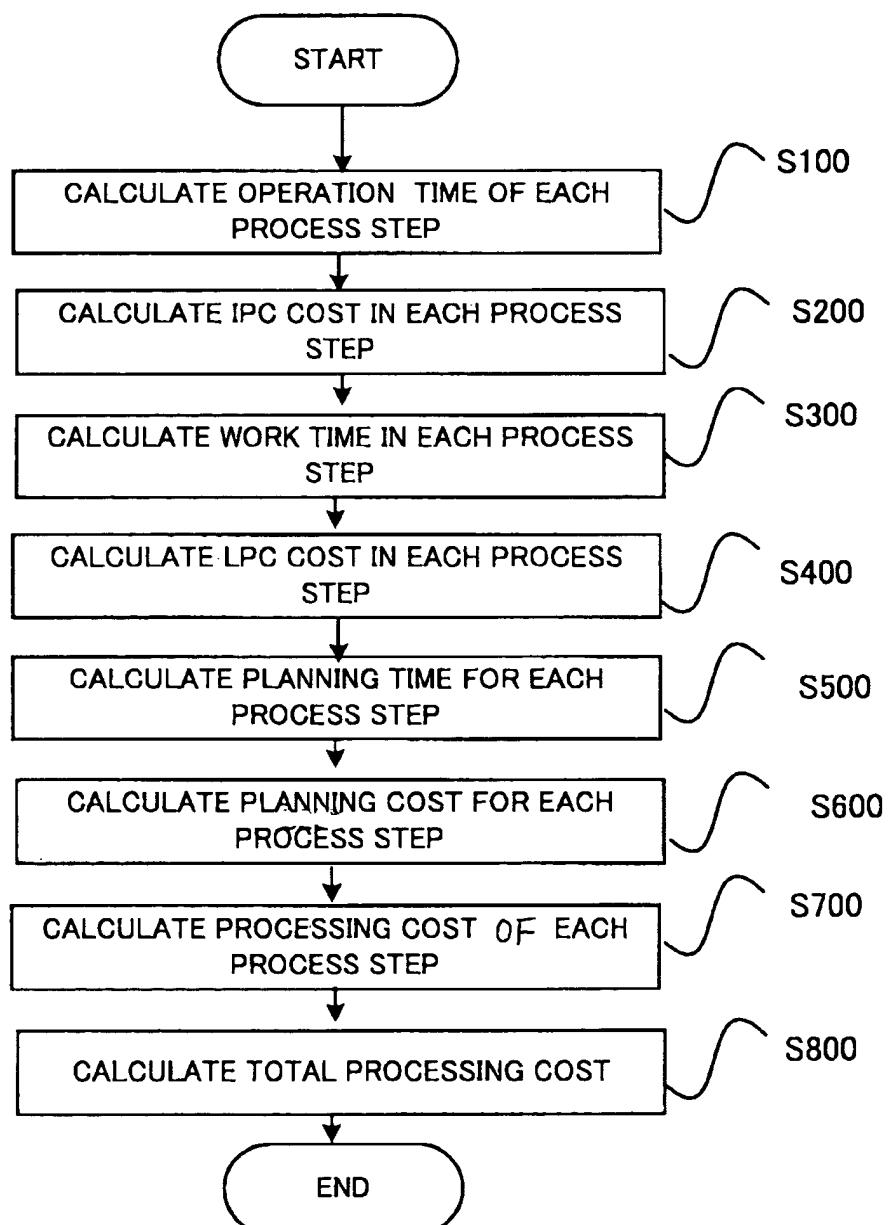
F I G. 7

b1

| | | | |
|---|----------------------------------|---|---|
| COMPONENT | SUFFIX | COMPONENT | NAME |
| <PROCESS INFORMATION> | | | |
| NUMBER | CONNECTING | DISPLACEMENT- CRIMPING (C.C.) | INSULATION- CRIMPING (IDC) |
| WIRING- RELATED WORKS | TERMINAL INSERTION INTO WIRES | WIRING - PREPARATION WORKS/WIRING | WIRING-RELATED WORKS CONTINUITY CHECK/ APPEARANCE CHECK |
| PROCESS STEP | | PARAMETER | |
| WIRING- RELATED WORKS | | QT. OF TERMINALS | |
| TAPING BUNDLING | | KIND | QT. OF POINTS |
| | | CLOSED TERMINAL CORE CROSS | |
| | | OTHERS(GENERAL) | |
| < NAVIGATOR > | | | |
| <input type="button" value="▲PRIOR COMPONENT"/> <input type="button" value="▼NEXT COMPONENT"/> <input type="button" value="RETURN"/> <input type="button" value="CANCEL"/> <input type="button" value="HELP"/> <input type="button" value="PROCESS GUIDE"/> | | | |
| WIRES | LENGTH | BRANCHES | TERMINALS |
| ~3 | | | TAPING |
| 4~11 | | | |
| 11~ | | | |
| TUBE ATTACHING | | TUBE LENGTH | QT. OF POINTS |
| THER. CONTRACTION | | KIND | TUBE LENGTH |
| TUBE ATTACHING | | SILICON | QT. OF POINTS |
| OTHERS | | WIRE LENGTH | BRANCHES/POINTS |
| SPIRAL LAP | | QT. OF POINTS | SURGE KILLER |
| RELAY CN. | | | QT. OF POINTS |
| ATTACHING | | | ATTACHING |
| CIRCLE CORE | | CORES/WIRE WINDINGS | SPLIT CORES/WINDINGS |
| ATTACHING | | | ATTACHING |
| BRACKET | | QT. OF BRACKETS | QT. OF SCREWS |
| ATTACHING | | | |
| CONTINUITY/APPEARANCE CHECK | | QT. OF CN | QT. OF TERMINALS |

FIG. 8

8/38



F I G. 9

9/38

| | QT. OF POLES(PINS ON CHILD SIDE) | | | | |
|----------|----------------------------------|-------|-------|-------|-------|
| | 2 | 3 | 4 | 5~7 | 8~15 |
| ~200 | • • • | • • • | • • • | • • • | • • • |
| 201~500 | • • • | • • • | • • • | • • • | • • • |
| 501~1000 | • • • | • • • | • • • | • • • | • • • |
| 1001~ | • • • | • • • | • • • | • • • | • • • |

FIG. 10

10/38

| | | L | 200 | 201 | 501 | 1001 |
|---------------------|------------------|---|-----|-----|-----|------|
| | | P | C | | | |
| 11 POLES OR MORE | 1 PER UNIT | 2 | ••• | ••• | ••• | ••• |
| | 1 PER UNIT | 3 | ••• | ••• | ••• | ••• |
| | 1 PER UNIT | 4 | ••• | ••• | ••• | ••• |
| | 1 PER UNIT | 5 | ••• | ••• | ••• | ••• |
| | 1 PER UNIT | 6 | ••• | ••• | ••• | ••• |
| | 1 PER UNIT | 7 | ••• | ••• | ••• | ••• |
| | 2 PER UNIT | 2 | ••• | ••• | ••• | ••• |
| 4~10 POLES | 2 PER UNIT | 3 | ••• | ••• | ••• | ••• |
| | 2 PER UNIT | 4 | ••• | ••• | ••• | ••• |

L: WIRE'S LARGEST LENGTH

P: QUANTITY OF CONNECTORS ON PARENT SIDE

C: QUANTITY OF CONNECTORS ON CHILD SIDE

F I G. 11

11/38

| | QT. OF POLES(PINS ON CHILD SIDE) | | | | | |
|----------|----------------------------------|-------|-------|-------|-------|-------|
| | 2 | 3 | 4 | 6~7 | 8~10 | 11~15 |
| ~200 | • • • | • • • | • • • | • • • | • • • | • • • |
| 201~500 | • • • | • • • | • • • | • • • | • • • | • • • |
| 501~1000 | • • • | • • • | • • • | • • • | • • • | • • • |
| 1001~ | • • • | • • • | • • • | • • • | • • • | • • • |

12/38

F I G. 12

| WIRE LENGTH | OPERATION TIME ESTIMATION FUNCTION | |
|-------------|------------------------------------|---------------------------|
| | VINYL-COVERED | OTHERS |
| ~600 | OPERATION TIME =0.9*WIRES | OPERATION TIME =1.1*WIRES |
| 601~900 | • • • | • • • |
| 901~1200 | • • • | • • • |
| 1201~1500 | • • • | • • • |
| 1501~1800 | • • • | • • • |
| 1801~2000 | • • • | • • • |
| 2101~2400 | • • • | • • • |
| 2401~3000 | • • • | • • • |

13/38

F I G. 13

| QUANTITY OF WIRES FOR CC | OPERATION TIME ESTIMATION FUNCTION |
|-----------------------------|---|
| 1 | OPERATION TIME = 1.4 + 8.1 * NO. OF POINTS FOR CC |
| 2 | • • • |
| 3 | • • • |
| 4 | • • • |
| 5 | • • • |
| 6 | • • • |
| 7 | • • • |
| 8 | • • • |
| 9 | • • • |

14 / 38

F I G. 14

| QUANTITY OF WIRES FOR CC | OPERATION TIME ESTIMATION FUNCTION |
|-----------------------------|--|
| 1 | OPERATION TIME = 4.4*NO.OF POINTS FOR CC |
| 2 | • • • |
| 3 | • • • |

15/38

F I G. 15

| QUANTITY OF WIRES FOR CC | OPERATION TIME ESTIMATION FUNCTION |
|-----------------------------|---|
| 1 | OPERATION TIME =1.2*NO.OF POINTS FOR CC |
| 2 | • • • |
| 3 | • • • |

16/38

F I G. 16

| WIRE LENGTH | OPERATION TIME ESTIMATION FUNCTION |
|-------------|-------------------------------------|
| ~600 | OPERATION TIME = 1.2 * QT. OF WIRES |
| 601 ~ 900 | • • • |
| 901 ~ 1200 | • • • |
| 1201 ~ 1500 | • • • |
| 1501 ~ 1800 | • • • |
| 1801 ~ 2000 | • • • |
| 2101 ~ 2400 | • • • |
| 2401 ~ 3000 | • • • |

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F I G. 17

| KIND | OPERATION TIME ESTIMATION FUNCTION |
|--------------------|---|
| INLET,FUSE HOLDER | OPERATION TIME =14.6*QT.OF WIRES+5.4*QT.OF COMPONENTS |
| MICRO SW,CONNECTOR | • • • |

F I G. 18

18/38

| QUANTITY OF WIRES | OPERATION TIME ESTIMATION FUNCTION |
|-------------------|---|
| 1 | OPERATION TIME = 3.2*NO.OF POINTS WIREMARK ADHERING |
| 2 OR MORE | ◦◦◦ |

F I G. 19

19/38

| WIRE'S LARGEST LENGTH | OPERATION TIME ESTIMATION FUNCTION |
|-----------------------|--|
| ~500 | OPERATION TIME = 0.7 + 1.0 * NO.OF CONNECTORS + QT.TERMINALS |
| 501 ~ | • • • |

F I G. 20

20/38

| KIND | OPERATION TIME ESTIMATION FUNCTION |
|---------------------------------------|---|
| 80,100,150 | OPERATION TIME =3.2*NO.OF POINTS FOR BIND |
| CLOSED TERMINAL, CORE CROSS FIXING | • • • |

F I G. 21

21/38

| QUANTITY OF WIRES | OPERATION TIME ESTIMATION FUNCTION |
|-------------------|---|
| 3 OR LESS | $OPERATION\ TIME = 2.9 * NO. OF\ POINTS\ FOR\ TAPING$ $+ 0.043 * TAPING\ LENGTH + 21 * (NUMBER\ OF\ BRACHES + QT. OF$ $CLOSED\ TERMINAL)$ |
| 4 TO 10 | • • • |
| 11 OR LESS | • • • |

F I G. 22

22/38

| TUBE KIND | OPERATION TIME ESTIMATION FUNCTION |
|--------------|--|
| SILICON TUBE | OPERATION TIME = $5.4 * \text{NO. OF POINTS FOR TUBE ATTACHING}$ $+ 0.1 * \text{TUBE LENGTH}$ |
| OTHERS | OPERATION TIME = $5.4 * \text{NO. OF POINTS FOR ATTACHING}$ $\text{OTHERS THAN TUBE} + 0.1 * \text{LENGTH OF OTHERS THAN TUBE}$ |

F I G. 23

23/38

| PROCESS STEP | TIME FACTOR |
|---|-------------|
| FULLY-AUTOMATED DUAL TERMINAL C.C | 1.12 |
| CONTINUOUS TERMINAL C.C | 1.16 |
| SEPARATE TERMINAL C.C | • • • |
| FULLY-AUTOMATED DUAL TERMINAL IDC(MULTI) | • • • |
| FULLY-AUTOMATED DUAL TERMINAL IDC(COPPER FOIL SHIELD) | • • • |
| FULLY-AUTOMATED DUAL TERMINAL IDC(SIMPLE) | • • • |
| SEMI-AUTOMATED IDC | • • • |
| FULLY-AUTOMATED CUTTING | • • • |
| | |

F I G. 24

24/38

| | IPC COST RATIO (YEN/Hr) | LPC COST RATIO (YEN/Hr) | TOTAL (YEN/Hr) | IPC COST RATIO (YEN/ sec) | LPC COST RATIO (YEN/ sec) | TOTAL (YEN/ sec) |
|-------------------------------------|----------------------------------|----------------------------------|-------------------|---------------------------------------|---------------------------------------|------------------------|
| FULLY-AUTOMATED CUTTING | | | | | | |
| MANUAL C.C. | | | | | | |
| SEPARATED TERMINAL C.C. | | | | | | |
| CONTINUOUS TERMINAL C.C. | | | | | | |
| FULLY AUTOMATED -DUAL TERMINAL C.C. | | | | | | |
| TERMINAL INSERTING | | | | | | |
| SAID C | | | | | | |
| FADTDC(MULTI) | | | | | | |
| FADTDC(SIMPLE) | | | | | | |
| FADTDC(COPPER FOIL SHIELD) | | | | | | |
| SOLDERING | | | | | | |
| INSULATION SLEEVE INSERTION | | | | | | |
| WIRE MARK ADHERING | | | | | | |
| SINGLE CN INSERTION INTO HOUSING | | | | | | |
| WIRING | | | | | | |
| TERMINAL INSERTION INTO WIRES | | | | | | |
| BIND BUNDLING | | | | | | |
| TUBE ATTACHING | | | | | | |
| THERMAL CONTRACTION TUBE ATTACHING | | | | | | |
| SPIRAL LAP BUNDLING | | | | | | |
| RELAY CONNECTOR ATTACHING | | | | | | |
| SERGE KILLER ATTACHING | | | | | | |
| CIRCLE CORE ATTACHING | | | | | | |
| BRACKET ATTACHING | | | | | | |
| CONTINUITY CHECK | | | | | | |
| APPEARANCE CHECK | | | | | | |

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FIG. 25

| HARNESS | | ESTIMATED COST LIST | | |
|--|--------|------------------------------------|--|-----------------------------|
| COMPONENT NUMBER | SUFFIX | ADDITIONAL ASSESSMENT NUMBER | PRODUCTION BASE | OBJECTIVE |
| COMPONENT NAME | | WORKING LOT/MONTH | | |
| UNIT COMPONENT COST | | | | |
| MATERIAL COST | | | | |
| PROCESSING COST | | | | |
| MATERIAL LOSS COST | | =MATERIAL COST | *MATERIAL LOSS COST RATIO | |
| MATERIAL MANAGEMENT COST | | =MATERIAL COST | *MATERIAL MANAGEMENT | |
| GENERAL MANAGEMENT COST | | =PROCESSING COST | *COST RATIO *GENERAL MANAGEMENT COST RATIO | |
| PROFIT MARGIN | | | + MATERIAL MANAGEMENT COST | |
| TRANSPORTATION/ MATERIAL HANDLING COST | | | + GENERAL MANAGEMENT + COST | *PROFIT MARGIN RATIO |
| | | | =TRANSPORTATION COST | + MATERIAL HANDLING COST |
| | | | + SHEET/BAG COST | + WRAPPING COST |
| | | | + DIVIDER COST | |

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FIG. 26

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FIG. 27

| | | | | | | |
|---|----------------------|--------|--|-------------------|----------------------|-------------------------------|
| COMPONENT NUMBER | <input type="text"/> | SUFFIX | <input type="text"/> | COMPONENT NAME | <input type="text"/> | OK |
| | | | | | | CANCEL |
| IDC | | | C.C | | | |
| SIMPLE WIRE LENGTH <input type="text"/> <input type="checkbox"/> COPPER FOIL SHIELD WIRE <input type="checkbox"/> QT.OF.UNUSED PINS IN ONE CONNECTOR IS HALF OR MORE OF TOTAL QUANTITY OF PINS | | | REFERENCE DIAGRAM 1 INSULATION DISPLACEMENT CRIMPING(SIMPLE) | | | <input type="text"/> IMAGE |
| MULTI THERE ARE TWO OR MORE <input type="checkbox"/> CONTINUOUS UNUSED PINS IN PARENT CONNECTOR WIRE LENGTH <input type="text"/> WIRE LENGTH <input type="text"/> | | | REFERENCE DIAGRAM 2 INSULATION DISPLACEMENT CRIMPING(MULTI) | | | <input type="text"/> IMAGE |

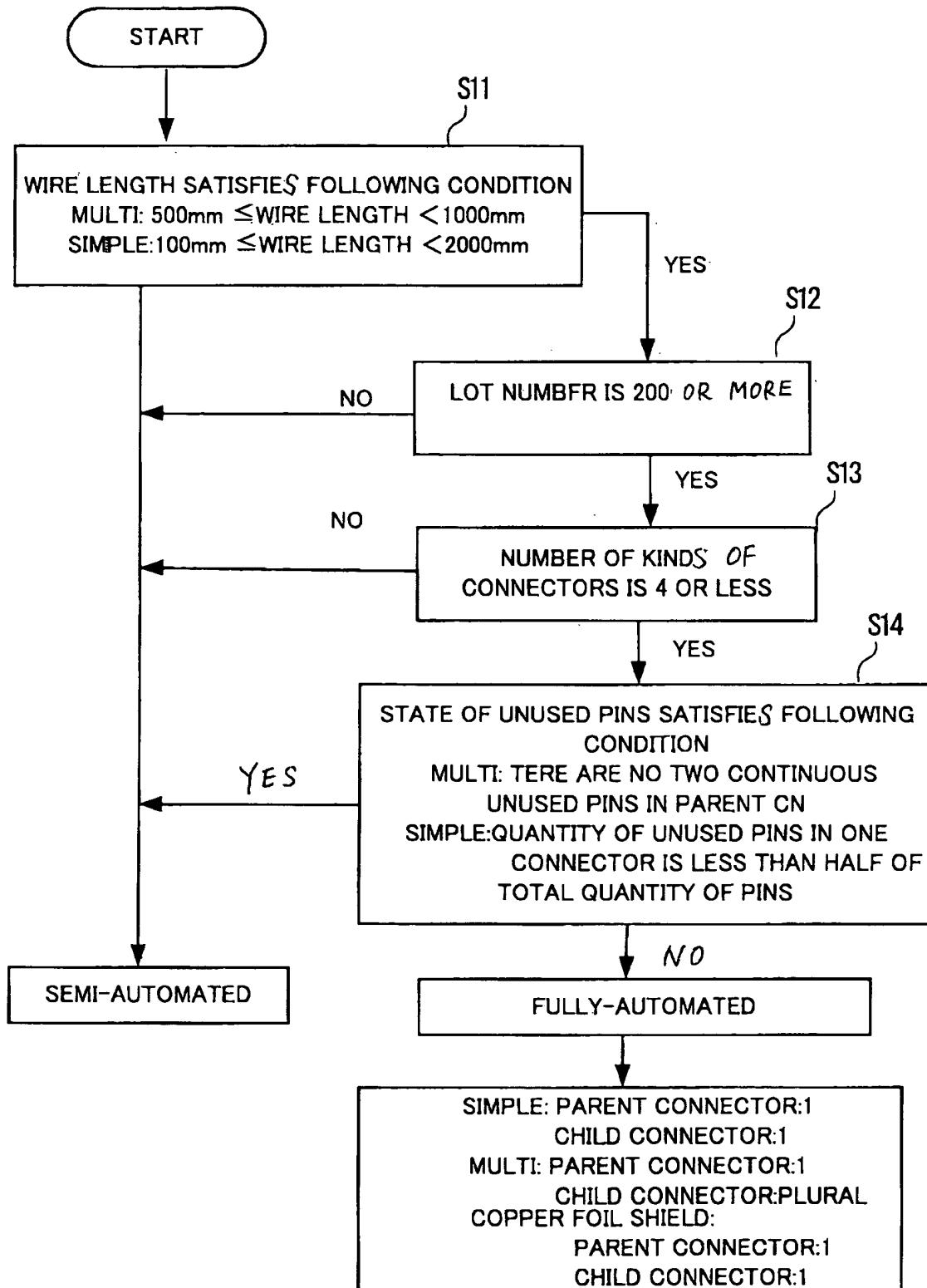
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FIG. 28

| | | | | | | | |
|--|----------------------|--------|--|-------------------|----------------------|---|--|
| COMPONENT NUMBER | <input type="text"/> | SUFFIX | <input type="text"/> | COMPONENT NAME | <input type="text"/> | OK | |
| | | | | | | CANCEL | |
| IDC | | | C.C | | | | |
| <input type="checkbox"/> CLOSED TERMINAL INCLUDED <input type="checkbox"/> RESIN-COVERED CIRCLE TERMINAL INCLUDED <input type="checkbox"/> MICRO SW, INLET, OR FUSE HOLDER INCLUDED <input type="checkbox"/> FIRST-IN SLEEVE INCLUDED | | | WIRE LENGTH <input type="text"/> <input type="checkbox"/> WIRE MATERIAL IS SILICON, GLASS OR TEFLO | | | <input type="checkbox"/> CLOSED TERMINAL INCLUDED <input type="checkbox"/> RESIN-COVERED CIRCLE TERMINAL INCLUDED <input type="checkbox"/> MICRO SW, INLET, OR FUSE HOLDER INCLUDED <input checked="" type="checkbox"/> FIRST-IN SLEEVE INCLUDED | |
| <input type="checkbox"/> CLOSED TERMINAL INCLUDED <input type="checkbox"/> RESIN-COVERED CIRCLE TERMINAL INCLUDED <input type="checkbox"/> MICRO SW, INLET, OR FUSE HOLDER INCLUDED <input type="checkbox"/> FIRST-IN SLEEVE INCLUDED | | | WIRE LENGTH <input type="text"/> <input type="checkbox"/> WIRE MATERIAL IS SILICON, GLASS OR TEFLO | | | <input type="checkbox"/> CLOSED TERMINAL INCLUDED <input type="checkbox"/> RESIN-COVERED CIRCLE TERMINAL INCLUDED <input type="checkbox"/> MICRO SW, INLET, OR FUSE HOLDER INCLUDED <input type="checkbox"/> FIRST-IN SLEEVE INCLUDED | |
| <input type="checkbox"/> CLOSED TERMINAL INCLUDED <input type="checkbox"/> RESIN-COVERED CIRCLE TERMINAL INCLUDED <input type="checkbox"/> MICRO SW, INLET, OR FUSE HOLDER INCLUDED <input type="checkbox"/> FIRST-IN SLEEVE INCLUDED | | | WIRE LENGTH <input type="text"/> <input type="checkbox"/> WIRE MATERIAL IS SILICON, GLASS OR TEFLO | | | <input type="checkbox"/> CLOSED TERMINAL INCLUDED <input type="checkbox"/> RESIN-COVERED CIRCLE TERMINAL INCLUDED <input type="checkbox"/> MICRO SW, INLET, OR FUSE HOLDER INCLUDED <input type="checkbox"/> FIRST-IN SLEEVE INCLUDED | |
| • | | | | | | • | |
| • | | | | | | • | |
| • | | | | | | • | |

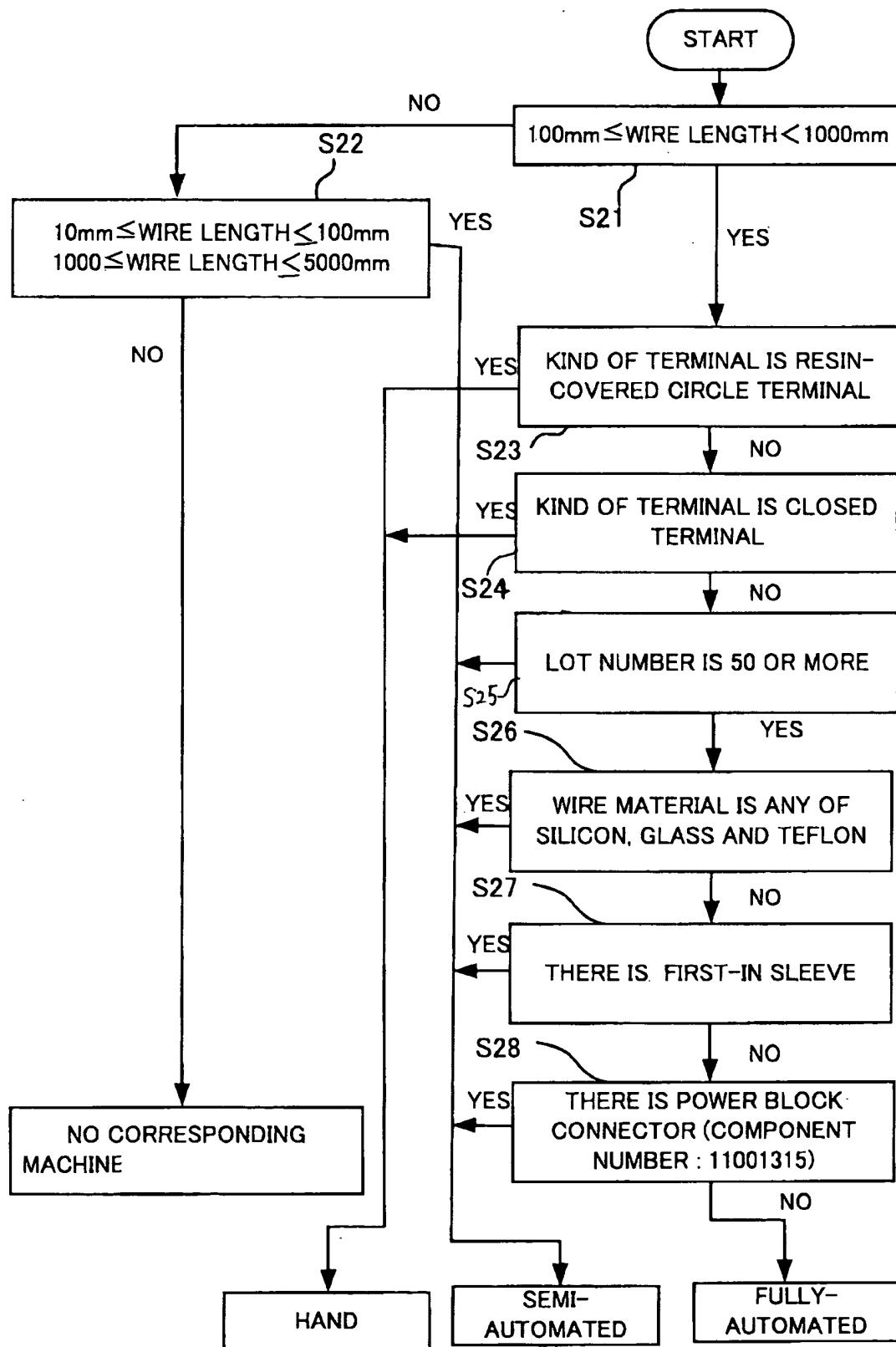
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FIG. 29



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FIG. 30



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FIG. 31

| C. C | C. C | | | |
|-------------------------------------|------|------------------------|--|-----------------------------|
| | HAND | RESIN-COVERED TERMINAL | 40 \leq L $<$ 45 5000 \leq L $<$ SW 9900 | MICRO-FUSE INLET, SLEEVE |
| SAIDC | | | | |
| FULLY-AUTOMATED CUTTING | ○ | ○ | ○ | ○ |
| MANUAL C.C. | ○ | ○ | ○ | ○ |
| SEPARATED TERMINAL C.C. | ○ | ○ | ○ | ○ |
| CONTINUOUS TERMINAL C.C. | ○ | ○ | ○ | ○ |
| FULLY AUTOMATED -DUAL TERMINAL C.C. | ○ | | | |
| FADTDC | | | | |
| FADTDC(SIMPLE) | | | | |
| FADTDC(MULTI) | | | | |
| FADTDC(COPPER FOIL SHIELD) | | | | |
| WIRING -PREPARATION WORKS | | | | |
| SOLDERING | | ○ | ○ | ○ |
| INSULATION SLEEVE INSERTION | | ○ | ○ | ○ |
| WIRE MARK ADHERING | ○ | ○ | ○ | ○ |
| TERMINAL INSERTING | ○ | ○ | ○ | ○ |
| WIRING | | | | |
| SINGLE ON INSERTION INTO HOUSING | | | | |
| WIRING-RELATED WORKS | | | | |
| TERMINAL INSERTION INTO WIRES | | | | |
| BIND BUNDLING | ○ | ○ | ○ | ○ |
| TAPING BUNDLING | | | | |
| TUBE ATTACHING | | | | |
| THERMAL CONTRACTION TUBE ATTACHING | | | | |
| SPIRAL LAP BUNDLING | | | | |
| RELAY CONNECTOR ATTACHING | | | | |
| SURGE KILLER ATTACHING | | | | |
| CORE ATTACHING | | | | |
| BRACKET ATTACHING | | | | |
| CONTINUITY CHECK | ○ | | | |
| APPEARANCE CHECK | ○ | | | |

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FIG. 32

| COMPONENT | | SUFFIX | COMPONENT NAME | | WIRING-RELATED WORKS | | WIRING-RELATED WORKS | | |
|--|--|-------------------------------|----------------|---------------------------------|----------------------|-----------------------------|----------------------|---------------------------------------|--|
| NUMBER | | <PROCESS INFORMATION> | | DISPLACEMENT- CRIMPING(G.D.) | | PREPARATION WORKS/WIRING | | CONTINUITY CHECK/ APPEARANCE CHECK | |
| CRIMP- CONNECTING (C.C.) | | INSULATION- CRIMPING(G.D.) | | PARAMETER | | T | | T 33 / 38 | |
| PROCESS STEP TERMINAL INSERTION INTO WIRES | | QT. OF TERMINALS | | CLOSED TERMINAL CORE CROSS | | G. | | G. 3 | |
| WIRING- RELATED WORKS | | BIND BUNDLING | | OTHERS(GENERAL) | | QT. OF POINTS | | RED 3 | |
| TAPING BUNDLING | | | | | | | | | |
| | | WIRES | LENGTH | BRANCHES/TERMINALS | | TAPING | | YELLOW | |
| | | ~3 | | | | | | | |
| | | 4~11 | | | | | | | |
| | | 11~ | | | | | | | |
| TUBE ATTACHING | | TUBE LENGTH | | QT. OF POINTS | | TUBE LENGTH | | YELLOW | |
| THER. CONTRACTION | | KIND | | | | | | | |
| TUBE ATTACHING | | SILICON | | | | | | | |
| | | OTHERS | | | | | | | |
| SPIRAL LAP | | WIRE LENGTH | | BRANCHES/POINTS | | | | WIRE MARK AD... | |
| RELAY CNN. | | QT. OF POINTS | | SURGE KILLER | | QT. OF POINTS | | SINGLE CN ... | |
| ATTACHING | | | | ATTACHING | | | | WIRING | |
| CIRCLE CORE | | CORES/WIRES | WINDINGS | SPLIT CORES | | WINDINGS | | RED | |
| ATTACHING | | BRACKETE | ATTACHING | ATTACHING | | ATTACHING | | | |
| CONTINUITY/APPARENCE CHECK | | QT. OF CN | | QT. OF SCREWS | | | | CONTINUITY CHECK APPEARANCE CHECK | |
| | | | | QT. OF TERMINALS | | | | YELLOW | |

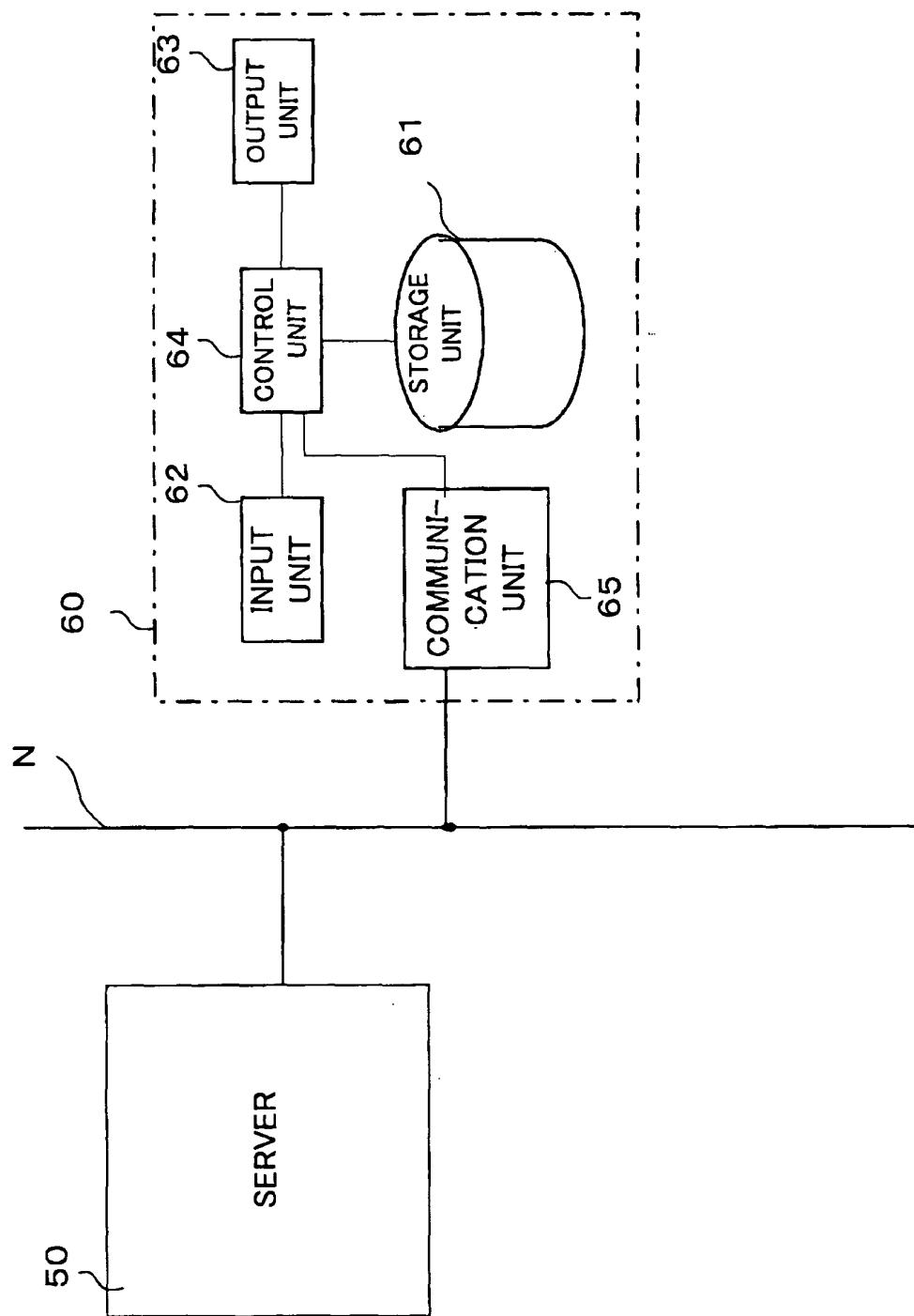
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FIG. 34

| PROCESS STEP | FADTCC CONTINUOUS TERMINAL CC | SEPARATE TERMINAL CC | FADTCC (MULTI) | FADTCC (COPPER FOIL SHIELD) | FADT (DC SIMPLE) |
|--|-------------------------------|----------------------|----------------|-----------------------------|------------------|
| ELECTRICITY DEMAND RATIO | | | | | |
| LOGICAL AMOUNT OF CONSUMED ELECTRICITY | | | | | |

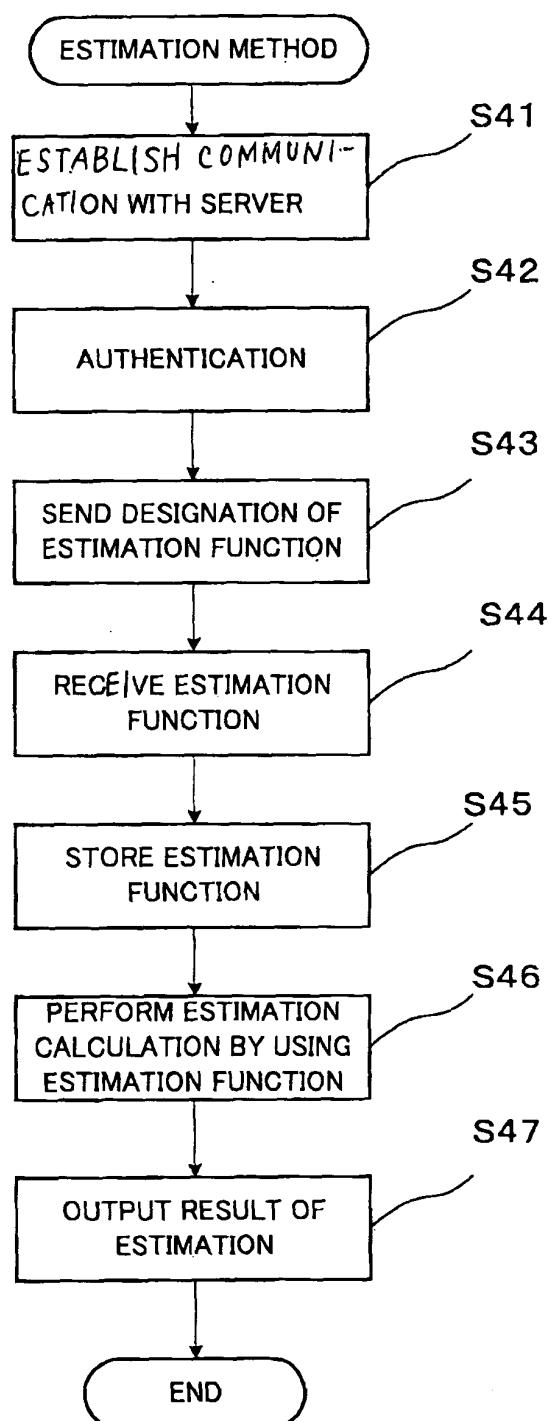
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FIG. 35



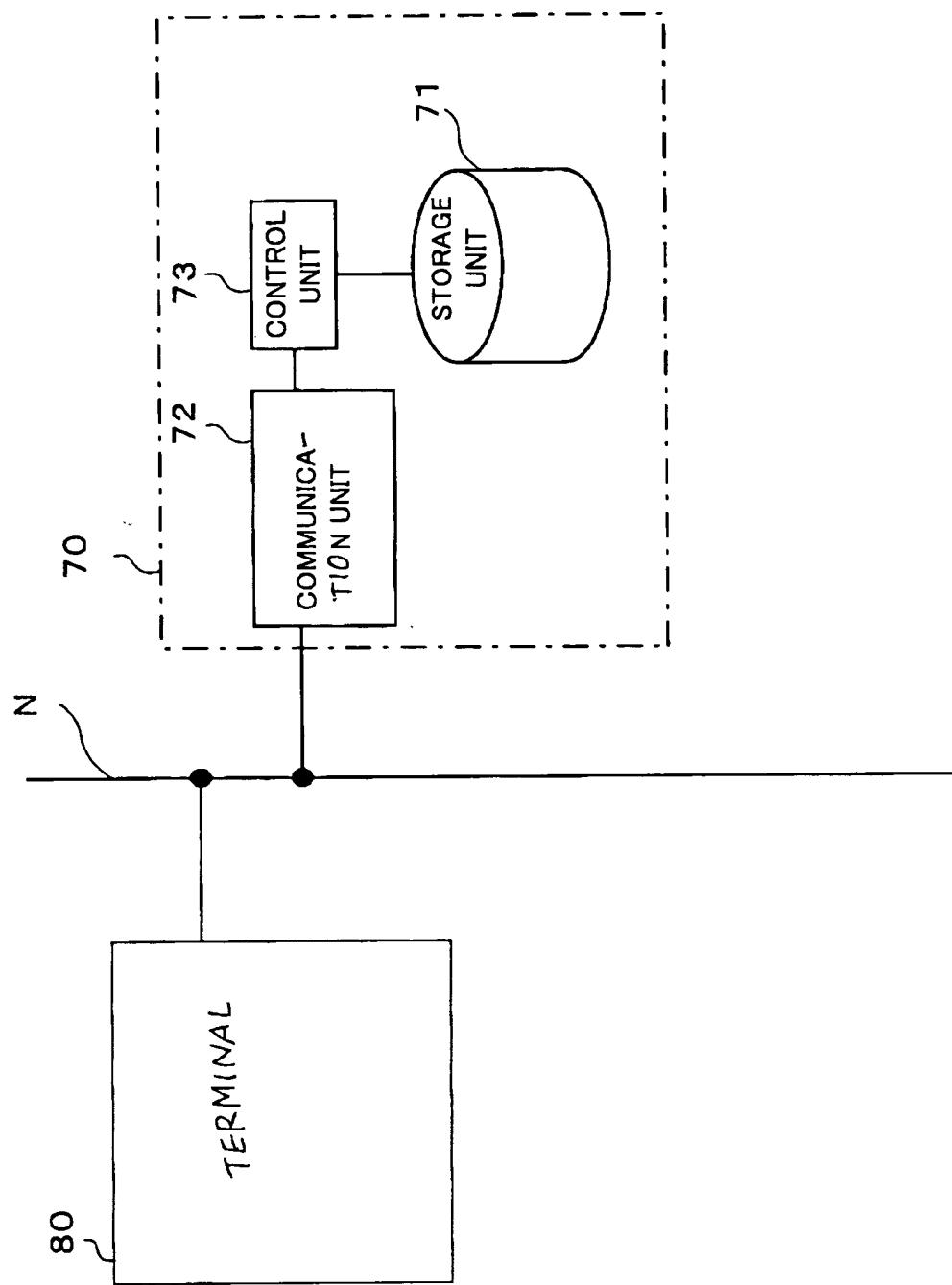
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FIG. 36



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FIG. 37



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FIG. 38

